How to change front strut mount on **Audi A3 8L1** – replacement guide

VIDEO TUTORIAL



Important!

This replacement procedure can be used for:
AUDI A3 Hatchback (8L1) 1.6, AUDI A3 Hatchback (8L1) 1.8, AUDI A3 Hatchback (8L1) 1.8 T, AUDI A3 Hatchback (8L1) 1.9 TDI, AUDI A1 Hatchback (8X1, 8XK) 1.4 TFSI, AUDI A1 Hatchback (8X1, 8XK) 1.6 TDI, AUDI A1 Hatchback (8X1, 8XK) 2.0 TDI, AUDI TT Coupe (8N3) 1.8 T, AUDI TT Coupe (8N3) 1.8 T quattro, AUDI A3 Hatchback (8L1) 1.8 T quattro, AUDI A3 Hatchback (8L1) S3 quattro, AUDI TT Roadster (8N9) 1.8 T, AUDI TT Roadster (8N9) 1.8 T quattro, AUDI A3 Hatchback (8L1) 1.9 TDI quattro, AUDI A3 Hatchback (8P1) 2.0 FSI, (+ 8)

The steps may slightly vary depending on the car design.

REPLACEMENT: STRUT MOUNT – AUDI A3 8L1. LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Drive socket # 13
- Drive socket # 18
- Flare nut socket №22
- HEX bit No.H6.
- 12-point socket 1-3/16”
- Shock absorber socket
- Combination spanner #18
- Combination spanner #21
- Ratchet wrench
- Torque wrench
- Copper grease
- Wheel impact socket #17
- Hydraulic transmission jack
- Rubber mallet
- Hydraulic strut spring compressor
- Wheel chock
- Fender cover

BUY TOOLS

Replacement: strut mount – Audi A3 8L1. Tip from AUTODOC experts:

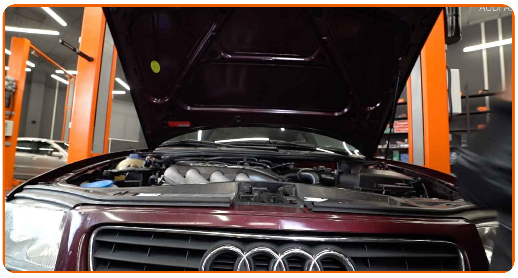
- The replacement procedure is identical for the mounts of the left and right shock struts of the front suspension.
- Be sure to replace all self-locking nuts and bolts during installation.
- Warning! Shut down the engine before starting any work – Audi A3 8L1.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Secure the wheels with chocks.



2 Open the bonnet.



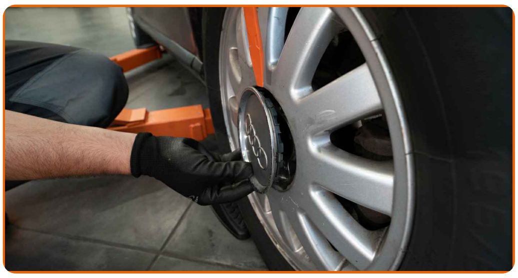
3

Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.



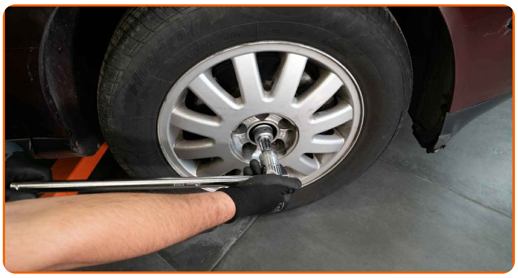
4

Remove the wheel rim cover.



5

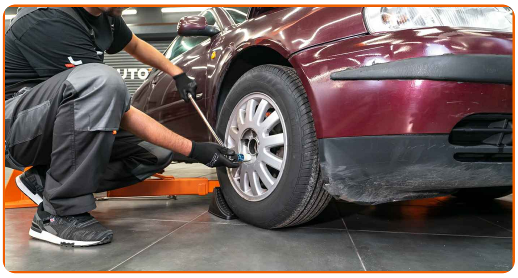
Unscrew the hub lock nut. Use 1-3/16" drive 12-point socket.



Replacement: strut mount – Audi A3 8L1. Tip from AUTODOC:

- Do not unscrew the fastener by more than 90 degrees.

6 Loosen the wheel mounting bolts. Use wheel impact socket #17.



7 Raise the front of the car and secure on supports.



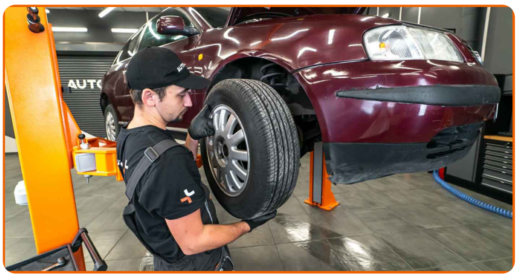
8 Unscrew the wheel bolts.



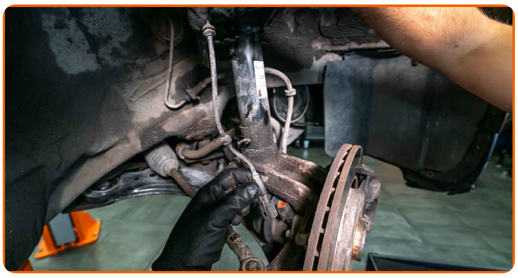
Replacement: strut mount – Audi A3 8L1. AUTODOC recommends:

- To avoid injury, hold up the wheel when unscrewing the bolts.

9 Remove the wheel.



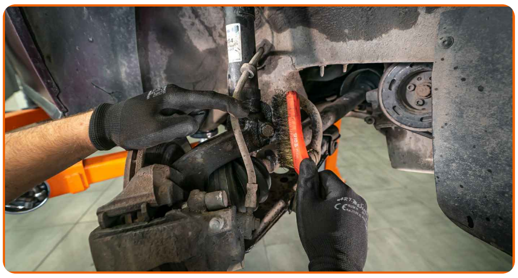
10 Disconnect the wiring and the brake hose from the bracket on the shock strut.



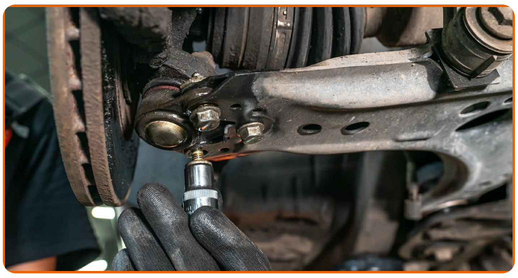
11 Unscrew the fastener connecting the drive shaft to the wheel hub. Use 1-3/16" drive 12-point socket.



12 Clean the fasteners connecting the shock strut to the steering knuckle. Clean the fasteners connecting the ball joint to the suspension control arm. Use a wire brush. Use WD-40 spray.



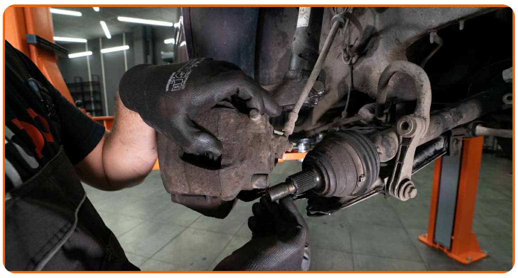
13 Unscrew the fastener connecting the ball joint to the suspension control arm. Use a drive socket #13.



14 Disconnect the spherical joint from the arm.

15

Pull the drive shaft out of the steering knuckle and lifting it, tie to the body.



AUTODOC recommends:

- Make sure that the drive shaft is not unloaded (when the car is jacked).

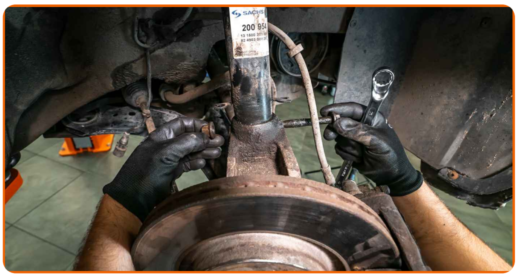
16

Prop up the steering knuckle. Use a hydraulic transmission jack.



17

Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.

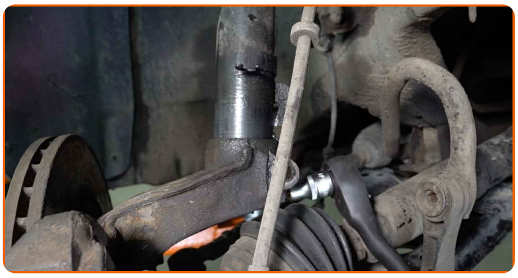


18

Remove the support from under the steering knuckle.



19 Release the lower fastener connecting the shock strut to the steering knuckle. Use a special drive socket to remove the shock absorber.



20 Disconnect the steering knuckle from the shock absorber strut.



Replacement: strut mount – Audi A3 8L1. AUTODOC recommends:

- If necessary, use a rubber mallet.

21 Prop up the steering knuckle. Use a hydraulic transmission jack.

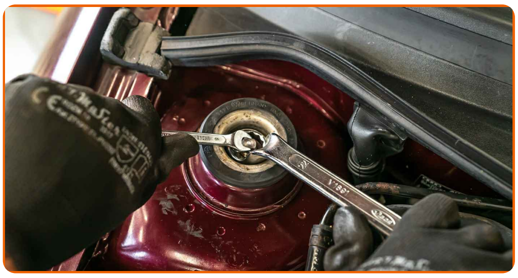


Replacement: strut mount – Audi A3 8L1. Tip:

- Make sure that the steering knuckle is not released from load.

22

Unscrew the upper fastening of the shock absorber strut. Use a combination spanner #21. Use HEX No.H6.

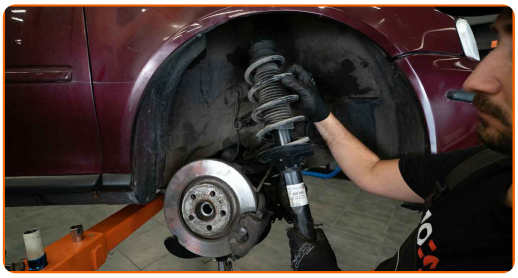


AUTODOC recommends:

- Important! Hold the suspension strut while unscrewing the fastening bolts. Audi A3 8L1

23

Remove the suspension strut. Set the shock absorber strut on the spring compressor tool.



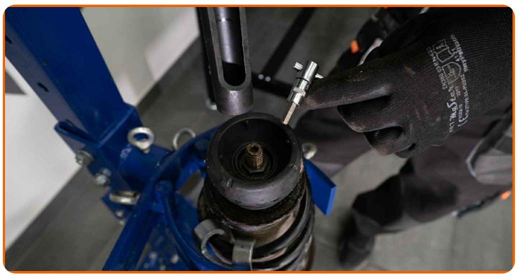
Replacement: strut mount – Audi A3 8L1. Professionals recommend:

- Note that when using a spring compressor, spring coils need to be securely gripped, compressing the spring on the opposite sides.
- Ensure the correct position of the spring in the retainer.
- Make sure that the spring coils tightly entered the lock handles.

24 Compress the spring.



25 Remove the strut piston rod nut. Use flare nut socket #22. Use HEX No.H6.



26 Remove the shock strut mount.



27 Clean the mounting seat of the shock strut mount. Use a wire brush.

28 Install a new strut mount.



29 Tighten the shock strut piston rod nut. Use flare nut socket #22. Use HEX No.H6. Use a torque wrench. Tighten it to 60 Nm torque.



Replacement: strut mount – Audi A3 8L1. AUTODOC experts recommend:

- Check to make sure the spring is positioned correctly. Avoid its misalignment.

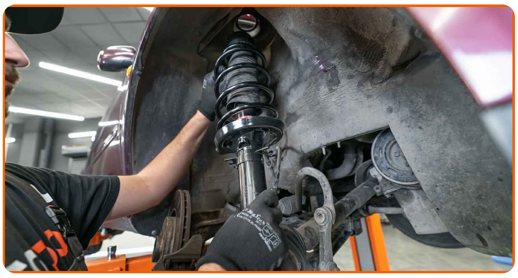
30 Decompress the spring.



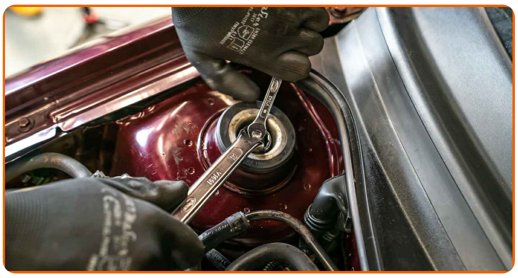
31 Remove the assembled shock strut.



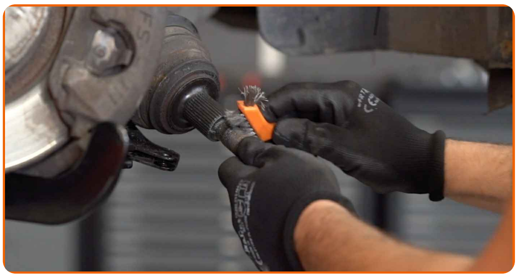
32 Install the shock strut into the wheel arch.



33 Tighten the shock strut top mount.



34 Clean the splines of the drive shaft CV joint. Use a wire brush. Treat the shock strut mounting seat on the steering knuckle. Use WD-40 spray.



35 Fix the shock absorber strut on the steering knuckle.

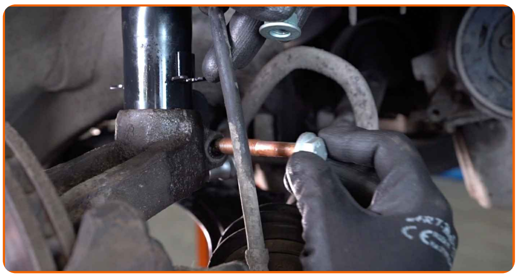


Replacement: strut mount – Audi A3 8L1. Tip from AUTODOC:

- If necessary, use a rubber mallet.

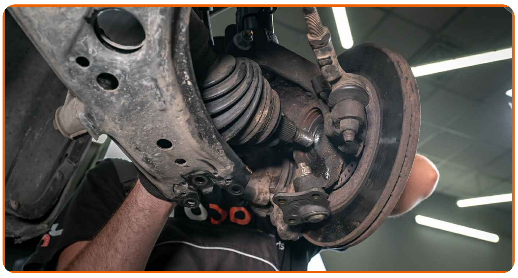
36

Install and tighten a new bolt of the steering knuckle. Important! Be sure to use new fasteners. Use a drive socket #18. Use a combination spanner #18. Use a torque wrench. Tighten it to 60 Nm torque.+90°



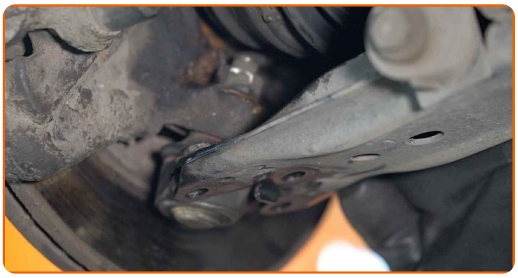
37

Mount the drive shaft into the wheel hub.



38

Attach the ball joint to the control arm.



39

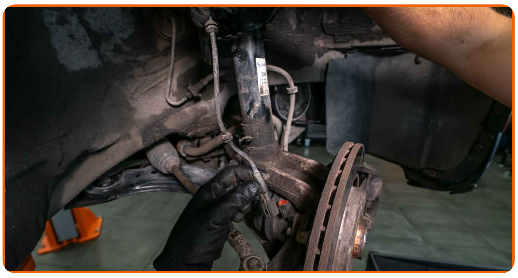
Screw in the fasteners of the ball joint lock plate (3 pieces). Important! Be sure to use new fasteners. Use a drive socket #13. Use a torque wrench. Tighten it to 20 Nm torque.+90°



40 Screw the nut of the drive shaft.



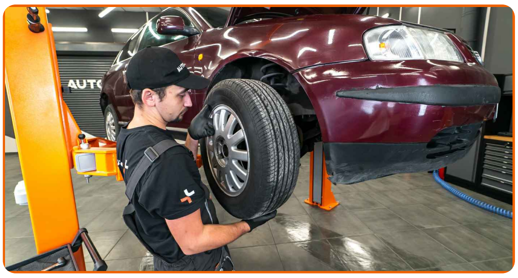
41 Fasten the brake hose on the strut. Connect the fastener of the ABS sensor cable to the shock absorber strut.



42 Clean the wheel rim mounting seat. Use a wire brush. Treat the contacting surface. Use copper grease.



43 Install the wheel.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. Audi A3 8L1

44 Screw in the wheel bolts. Use wheel impact socket #17.



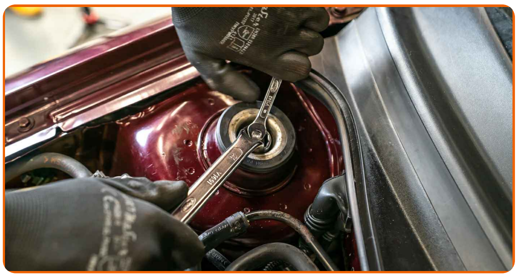
45 Tighten the drive shaft nut. Use 1-3/16" drive 12-point socket. Use a torque wrench. Tighten it to 180 Nm torque.



46 Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 120 Nm torque.



47 Tighten the shock strut top mount. Use a combination spanner #21. Use HEX No.H6. Use a torque wrench. Tighten it to 60 Nm torque.



48 Remove the fender protection cover.



49 Close the hood.



50 Remove the jacks and chocks.



WELL DONE!

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